Sidong Feng

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Education

- **Australian National University** — Canberra, AU
  Bachelor of Software Engineering (Honors) — *Feb. 2016 – Present*

Experience

- **Civilise.ai** — Canberra, AU
  Data Analyst — *Jul 2018 - Nov 2018*
  - **Data Preprocessing**: Developed CV modules to clip raster image into block for locating canberra property.
  - **Data Visualization**: Performed GIS operations on heatmap to cluster high concentration of property revolution.
- **China Life (Suzhou)** — Jiangsu, CN
  Software Developer — *Nov 2017 - Feb 2018*
  - **Software Management**: Responsible for debugging and repairing coding issues for application.
  - **Cross-browser Compatibility**: Re-factored functionalities and CSS for websites to ensure compatibility.

Projects

- **Components Design Gallery, Tagging-based Search, Design Composition Critique**
  Dr Zhenchang Xing (Australian National University), Dr Chunyang Chen (Monash University) — *Nov 2018 - Present*
  - **Auto-created GUI Component Gallery**: Support design sharing and knowledge discovery beyond content
  - **Discovering UI Semantic and Predicting Tag**: Recommend and recover the pre-described tags for UI design
  - **Debugging GUI Design**: Help determine the visual aesthetics of design and suggest potential revision
  - **Deep Learning**: Propose FRCNN for auto-creation, Hybrid model for prediction, DCGAN for design aesthetics.
- **Dynamic Facial Stress Recognition in Temporal Convolutional Network**
  Professor Tom Gedeon (Australian National University) — *Feb 2019 - Jul 2019*
  - **Deep Learning**: Convolutional based model to automatically recognize temporal dynamic facial stress problem.
  - **Outlier Removal**: Feasibility of Bimodal Distribution Removal on added artificial outlier and real world noise.
  - **Previous Work Analysis**: Fundamental limitations of static processing characteristics of stress recognition.
- **Implementing Mathematical Functions in a Unum Library**
  Dr Josh Milthorpe (Australian National University) — *Feb 2018 - Jun 2018*
  - **Mathematical Implementation**: Feasibility of mathematical inductions on Log, Exp and Power in Unum.
  - **High Performance Analysis**: Estimating Accuracy, Time and Precision to analyse function efficiency.

Publications

- **S. Feng**. "Dynamic Facial Stress Recognition in Temporal Convolutional Network", International Conference on Neural Information Processing of the Asia-Pacific Neural Network Society, 2019 accepted [**ICONIP 2019**].
- C. Chen, **S. Feng**, Z. Xing, L. Liu, S. Zhao, J. Wang. "Gallery D.C.: Design Search and Knowledge Discovery through Auto-created GUI Component Gallery", Proceedings of the ACM on Human-Computer Interaction, Volume. 3, No. CSCW, November 2019, pp. 180:1-180:22 [**CSCW 2019**].

Awards

- Fourth Grant Winner in Innovation ACT 2018.
- High Distinction in Algorithms, Mathematics, Database Analysis, Software Computing.
- Top student on Mathematic extension 1&2 and Information processes and technology graduated from BMGS.
- Top 30% in Australian Maths Trust competition.

Programming Skills

- **Languages**: Python, Java, Javascript, SQL, HTML, C, Haskell **Technologies**: Sketch, Photoshop, ArcGIS